

MODIFIED CLAIMS .-

1. (Amended). Radiophonic audience loyalty-generating and pick-up device consisting in a radio receiver intended for reception into commercial broadcasting frequency bands comprising a PLL (Phase Locked Loop) frequency synthesizer for the local oscillator. The said receiver further comprises a frequency divider that can only be programmed to certain predetermined counting values among the whole values contained in each given band, so that the receiver can only be tuned to the frequencies corresponding to the said predetermined counting values.
2. Radiophonic audience loyalty-generating and pick-up device according to claim 1, further comprising some paired permanent registers for storing the counting values to be introduced in the programmable divider of the PLL loop and an identification of the frequency band to which each predetermined frequency belongs to, and further comprising a selecting device controlled by the radio listener for activating a pair of registers. Each position of the said selection device corresponding to the tuning of one of the said predetermined frequencies.
3. Radiophonic audience loyalty-generating and pick-up device according to claim 1, further comprising tuning controls, a register matrix and a tuning controller. The said register matrix stores the counting values that are not allowed to the frequency divider of the said PLL loop, each one corresponding to an excluded frequency; also a kind of indication referring to the related band to which each excluded frequency belongs to is stored for each counting value, if not all the excluded frequencies belong to the same band. When a frequency is demanded from the tuning controls, the said tuning controller firstly compares that required frequency – in its related band - with those frequencies corresponding to counting values stored in the said register matrix, so that only non excluded frequencies are allowed for tuning.
4. (Amended). Radiophonic audience loyalty-generating and pick-up device according to claim 1, further comprising tuning controls, in which the truth table of the decoder that commands the programmable divider of the PLL loop has been designed for avoiding some counting values among the whole values contained in each given band, so that the device can only be tuned to some predetermined frequencies of the whole included in each band.
5. Radiophonic audience loyalty-generating and pick-up device according to claims 2, 3 or 4, further comprising an analog to digital converter, a signal processor for extracting information coded accordingly to IBOC/IBAC digital radio broadcasting systems, a digital to analog converter, an audio decoder and a switch for selecting between analog program and digital program.
6. (Amended). Radiophonic audience loyalty-generating and pick-up device consisting in a radio receiver intended for reception into commercial broadcasting frequency bands comprising a set of inductive or capacitive impedances for adjusting the bandpass for the radiofrequency signal, another set of inductive or capacitive impedances for adjusting the local oscil-

lator frequency, a selector controlled by the radio listener and a fine tuning circuit. Each position of the selector corresponds to the tuning of a predetermined frequency, so that the receiver can only be tuned to one of these predetermined frequencies.

- 5 7. Radiophonic audience loyalty-generating and pick-up device according to claim 6 in which the fine tuning circuit has got an extended adjusting range in order to allow to be tuned several adjacent predetermined frequencies.
8. Radiophonic audience loyalty-generating and pick-up device according to claim 6 in which the radiofrequency amplifier bandpass is adjusted for receiving a single predetermined frequency and in which the local oscillator is made upon a resonator manufactured for oscillating at the fixed frequency needed in the local oscillator in order the said predetermined frequency to be tuned at the receiver.
- 10 9. Radiophonic audience loyalty-generating and pick-up device according to claims 7 or 8, further comprising an analog to digital converter, a signal processor for extracting information coded accordingly to IBOC/IBAC digital radio broadcasting systems, an audio decoder, a digital to analog converter and a switch for selecting between analog program and digital program.
- 15 10. (Amended). Radiophonic audience loyalty-generating and pick-up device consisting in a radio receiver intended for reception into commercial broadcasting frequency bands comprising a PLL (Phase Locked Loop) frequency synthesizer for the local oscillator. The said receiver further comprises a circuit for decoding tuning useful information, some permanent registers for storing codes identifying radio stations/chains, a sweep generator for the tuning frequency and a selector device controlled by the radio listener for determining the active register among the said registers. Scan is stopped when the said decoder finds a radio station transmitting the same code stored into the said active register. Thus, the receiver can only be
- 20 11. Radiophonic audience loyalty-generating and pick-up device according to claim 10 in which the circuit for decoding information may perform picking up and decoding information according to the RDS system.
12. Radiophonic audience loyalty-generating and pick-up device according to claim 10 in which the circuit for decoding information may perform picking up and decoding information according to the RBDS system.
- 30 13. (Amended). Radiophonic audience loyalty-generating and pick-up device made upon a digital radio broadcasting receiver according to Eureka-147 digital radio broadcasting standard further comprising several permanent registers for storing the codes which identify some radio stations/chains and a selector device controlled by the radio listener for determining the active register among the said registers, thus fixing the program being received, so that the
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receiver can only be tuned to one of these predetermined radio stations/chains, as defined by the said codes.

14. (Amended). Radiophonic audience loyalty-generating and pick-up device according to claim 13 further comprising a Program Associated Data (PAD) decoder circuit and a sweep generator for scanning through the tuning frequency and through the programs included in each frequency multiplex. By means of the said sweep generator, the receiver scans the digital broadcasting dial and the programs contained in each frequency multiplex, and by means of the said decoder circuit detects the predetermined radio stations/chains, thus stopping the sweep at a radio station/chain owning the said code that is contained into the said register that has been activated by the said selector device controlled by the radio listener, so that the receiver can only be tuned to one of these predetermined radio stations/chains.